

## GME Post Implementation Survey for the Teachers 2017

Based on the needs that you expressed in the Pre- Professional Development Needs Assessment Survey, please take this survey as a way for you to inform us on how this program has met your needs and to alert us to any areas where you feel that we can further help you engage your students in STEM and 21st century skills.

1. What is the name of	your school?				
2. What is your name?	(mandatory)				
3. What are your standa	ard teaching pra	ctices for 2017-2	0182		
3. What are your stands	Never	Rarely	Sometimes	Often	Always
Lastona	Nevei	Raiely	Sometimes	Oiteil	Always
Lecture					
Discussion					
Media					
Demonstration					
Online activities					
Hands on and inquiry based					
Field studies					
Group work					

4. This school year, how much emphasis did you put on:								
	No emphasis	Little emphasis	Some emphasis	Quite a bit of emphasis	A great deal of emphasis			
Outdoor experimental activities								
Fieldwork data collection								
Lab data collection								
Data analysis								
Web materials use in the classroom								
Student lead projects and/ or activities								
5. Do students in your o	classroom have	access to comput	ers?					
Yes								
○ No								
If you answered 'Yes', how much computer time do students have in an average week?								
6. Which of the following data cote would you like to have for your eciones teaching? (Data cote include								
6. Which of the following data sets would you like to have for your science teaching? (Data sets include organized learning materials and visualizations). Please select all that apply.								
Hydrology								
рН								
Salinity								
Alkalinity								
Conductivity								
Dissolved Oxygen								
Nutrients (nitrate and phosphate)								
Air temperature								
Water temperature								
Ocean color								
Turbidity/transparency								
Atmosphere								

Air Temperature

Surface Temperature

Clouds
Precipitation
Barometric Pressure
Relative humidity
Aerosols
Ozone
Pedosphere / Lithosphere
Soil Temperature
Soil Moisture
Soil Characteristics (particle size, horizons)
Infiltration
Infiltration   Biosphere
Biosphere
Biosphere Green up/down
Biosphere Green up/down Budburst

7. What type of professional development do you feel you still need to improve/evolve your science instruction and facilitate your students in the following? Check all that apply.
Asking questions and defining problems
Planning and carrying out investigations
Gathering data from the field
Downloading data from databases and websites
Analyzing, and visualizing data
Interpreting data
Constructing explanations and designing solutions
Obtaining and evaluating information
Communicating information
Setting up groups for group work
Engaging in argument from evidence
Other (please specify)
8. Have you included hands-on or outdoor exploration activities in your teaching during the past year?
Yes
○ No
If yes, please provide an example.
9. Would you still be interested in incorporating more outdoor / field activities in your teaching?
Yes
○ No

10. Have you noticed incorporating GLOBE	•		les and achievem	ents in science	courses after
Yes	•				
No					
If yes, please describe.					
11. After participating	in the professional	development pr	ovided for GLOBI	Ξ:	
g	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I am confident I can set up and maintain my school GLOBE study site.					
I am confident I can integrate Globe Protocols into my required subject matter.				$\bigcirc$	
I am confident I am able to integrate GLOBE Protocols through facilitating science practices such as student questioning, analysis of student data, and construction of explanations from student's research/projects.					
I am confident I can facilitate system approach thinking to analyze complex environment events.					
I am confident that I can facilitate student collaboration in teams to solve complex environmental problems.					
I am confident that I can facilitate students in posing appropriate research questions, uploading collected data to the GLOBE website, and to compare their results to those collected by other students.					

12. How do you think G	LOBE protoc	ols can best b	e incorporated in	to what you	are currently to	eaching?
13. What modifications	do you plan t	to make to bet	ter incorporate G	LOBE into	your classroom	?
14. What type of suppor	t would help	you better inc	orporate GLOBE	in your cla	ssroom?	
Professional training						
Dedicated learning mate	erials					
Specific protocols for lea	arning activities					
Facilitating inquiry base	d activities					
Mentoring from experts						
Other (please specify)						
15. Did you get to use N	IASA resour	ces in your cla	ssroom during th	e school ye	ar?	
Yes						
○ No						
Please explain if necess	sarv:					
16. What additional sup	nort do vou r	need in order t	o better incorpora	ate NASA re	esources in vou	r classroom?
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17. FOR HIGH SCHOO	L ONLY					
Please select the degre	e to which yo	ou agree that i	mplementation of	f GLOBE aı	nd participation	in MISSION
EARTH has supported	_	_	-			
	Strongly	D:	Neither Agree	A	Cana li A	NI/A -11-1
a. strengthened	Disagree	Disagree	nor Disagree	Agree	Strongly Agree	N/A - don't know
students' knowledge of science content						

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	N/A - don't know	
b. improved the ability of students to apply scientific practices				, r <b>g</b> . s s			
c. strengthened students' 21st Century skills (i.e., communication, collaboration, creativity, & critical thinking							
d. increased students' awareness of careers in STEM and Information Communication Technology (ICT)		$\circ$					
e .increased students' motivation and interest in school			0				
f. strengthened students' knowledge in English/Language Arts ( (e.g. scientific and technical literacy)							
g. strengthened students' knowledge in Social Studies (geography, history, etc.)			$\bigcirc$				
h. strengthened students' knowledge in Math							
i. strengthened students' knowledge in CTE content (beyond science)			0		$\bigcirc$		
j .provided other benefits to my students, such as supporting student agency, civic engagement, etc.							
x. Please explain any of your responses further.							